

**COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY**

U.S. Patent and Trademark Office

Attorney Docket No. 44574-5061

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**NOVEL ODORANT RECEPTORS IN DROSOPHILA**

the specification of which:

was filed as United States application Serial No. 09/491,577 on January 25, 2000;

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office information which is material to the patentability of claims presented in this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate or §365(a) of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

**PRIOR FOREIGN APPLICATION(S):**

COUNTRY (if PCT, indicate PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim the benefits under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

**U.S. PROVISIONAL APPLICATION**

U.S. PROVISIONAL APPLICATION No.

U.S. FILING DATE

60/117,132

January 25, 1999

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or § 365(c) of any PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to the patentability of claims presented in this application in accordance with Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT

U.S. APPLICATIONS		STATUS (Check One)		
U.S. APPLICATION No.	U.S. FILING DATE	PATENTED	PENDING	ABANDONED

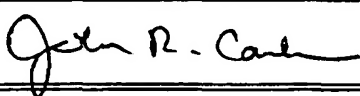

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the registered practitioners of **Morgan, Lewis & Bockius LLP** included in the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and direct that all correspondence be addressed to that Customer Number.

**Customer Number:** 009629

Direct Telephone Calls To: (name and telephone number)

Reid G. Adler  
202-467-7000

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF FIRST INVENTOR	John R. Carlson	
RESIDENCE	North Haven CT 06473	CITIZENSHIP: U.S.
POST OFFICE ADDRESS	31 Mountain Brook Road, North Haven CT 06473	
FIRST INVENTOR'S SIGNATURE		DATE 6/12/00
FULL NAME OF SECOND INVENTOR	Junhyong Kim	
RESIDENCE	Hamden CT 06517	CITIZENSHIP: Korea
POST OFFICE ADDRESS	94 Swarthmore Street, Hamden CT 06517	
SECOND INVENTOR'S SIGNATURE		DATE
FULL NAME OF THIRD INVENTOR	Peter J. Clyne	
RESIDENCE	San Francisco CA 94115	CITIZENSHIP: U.S.
POST OFFICE ADDRESS	1939 Turk Street, San Francisco CA 94115	
THIRD INVENTOR'S SIGNATURE		DATE
FULL NAME OF FOURTH INVENTOR	Coral G. Warr	
RESIDENCE	New Haven CT 06511	CITIZENSHIP: Australia
POST OFFICE ADDRESS	24 Bishop Street, Third floor, New Haven CT 06511	
FOURTH INVENTOR'S SIGNATURE		DATE 6/12/00

Listing of Inventors Continued on attached page [ ] Yes [X] No

**COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY**

U.S. Patent and Trademark Office

Attorney Docket No. 44574-5061

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**NOVEL ODORANT RECEPTORS IN DROSOPHILA**

the specification of which:

was filed as United States application Serial No. 09/491,577 on January 25, 2000;

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**PRIOR FOREIGN APPLICATION(S):**

COUNTRY (if PCT, indicate PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED
			<input type="checkbox"/> Yes <input type="checkbox"/> No
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U.S. PROVISIONAL APPLICATION No.	U.S. FILING DATE
60/117,132	January 25, 1999

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PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT

U.S. APPLICATIONS		STATUS (Check One)		
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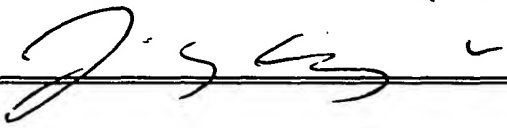
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**Customer Number: 009629**

Direct Telephone Calls To: (name and telephone number)

**Reid G. Adler**  
**202-467-7000**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF FIRST INVENTOR	John R. Carlson	
RESIDENCE	North Haven CT 06473	CITIZENSHIP: U.S.
POST OFFICE ADDRESS	31 Mountain Brook Road, North Haven CT 06473	
FIRST INVENTOR'S SIGNATURE	DATE	
FULL NAME OF SECOND INVENTOR	Junhyong Kim	
RESIDENCE	Hamden CT 06517	CITIZENSHIP: Korea
POST OFFICE ADDRESS	94 Swarthmore Street, Hamden CT 06517	
SECOND INVENTOR'S SIGNATURE		DATE 5-11-00
FULL NAME OF THIRD INVENTOR	Peter J. Clyne	
RESIDENCE	San Francisco CA 94115	CITIZENSHIP: U.S.
POST OFFICE ADDRESS	1939 Turk Street, San Francisco CA 94115	
THIRD INVENTOR'S SIGNATURE	DATE	
FULL NAME OF FOURTH INVENTOR	Coral G. Warr	
RESIDENCE	New Haven CT 06511	CITIZENSHIP: Australia
POST OFFICE ADDRESS	24 Bishop Street, Third floor, New Haven CT 06511	
FOURTH INVENTOR'S SIGNATURE	DATE	

Listing of Inventors Continued on attached page [ ] Yes [X] No

**COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY**

U.S. Patent and Trademark Office

Attorney Docket No. 44574-5061

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U.S. APPLICATIONS		STATUS (Check One)		
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**Reid G. Adler**  
**202-467-7000**



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POST OFFICE ADDRESS	31 Mountain Brook Road, North Haven CT 06473	
FIRST INVENTOR'S SIGNATURE		DATE
FULL NAME OF SECOND INVENTOR	Junhyong Kim	
RESIDENCE	Hamden CT 06517	CITIZENSHIP: Korea
POST OFFICE ADDRESS	94 Swarthmore Street, Hamden CT 06517	
SECOND INVENTOR'S SIGNATURE		DATE
FULL NAME OF THIRD INVENTOR	Peter J. Clyne	
RESIDENCE	San Francisco CA 94115	CITIZENSHIP: U.S.
POST OFFICE ADDRESS	1939 Turk Street, San Francisco CA 94115	
THIRD INVENTOR'S SIGNATURE <i>Pete Clyne</i>		DATE 5/16/00
FULL NAME OF FOURTH INVENTOR	Coral G. Warr	
RESIDENCE	New Haven CT 06511	CITIZENSHIP: Australia
POST OFFICE ADDRESS	24 Bishop Street, Third floor, New Haven CT 06511	
FOURTH INVENTOR'S SIGNATURE		DATE

Listing of Inventors Continued on attached page [ ] Yes [X] No

RECEIVED

DEC 14 2000

MORGAN, LEWIS & BOCKIUS LLP

DECEMBER 07, 2000

MORGAN, LEWIS & BOCKIUS LLP  
REID G. ADLER  
INTELLECTUAL PROPERTY SUPPORT UNIT  
1800 M STREET NW  
WASHINGTON, DC 20036



PTAS

UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231



\*101535970A\*

## CORRECTED NOTICE

### UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/10/2000

REEL/FRAME: 010945/0692

NUMBER OF PAGES: 7

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

CARLSON, JOHN R.

DOC DATE: 06/12/2000

ASSIGNOR:

KIM, JUNHYONG

DOC DATE: 06/07/2000

ASSIGNOR:

CLYNE, PETER J.

DOC DATE: 05/16/2000

ASSIGNOR:

WARR, CORAL G.

DOC DATE: 06/12/2000

ASSIGNEE:

YALE UNIVERSITY  
451 COLLEGE STREET  
NEW HAVEN, CONNECTICUT 06520

SERIAL NUMBER: 09491577

PATENT NUMBER:

FILING DATE: 01/25/2000

ISSUE DATE:

44574-5061  
**DOCKETED**  
By SDW Date 12-14-00

010945/0692 PAGE 2

SEDLEY PYNE, PARALEGAL  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

12-06-2000

IEET



101535970

Attorney Docket No. 044574-5061-US

To the Commissioner of Patents and Trademarks:

Please record the attached original documents or copy thereof.

ATTENTION: BOX ASSIGNMENT

1. Name of conveying parties:

John R. Carlson  
Junhyong Kim  
Peter J. Clyne  
Coral G. Warr

Additional names of conveying parties attached?

☐ Yes ☒ No

2. Name and address of receiving party:

Name: YALE UNIVERSITY

Street Address: 451 College Street, New Haven CT 06520

Additional names & addresses attached?

☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Dates: May 16, 2000  
June 7, 2000  
June 12, 2000

4. Application numbers or patent numbers:

If this document is being filed together with a new application the execution date of the application is:

Patent Application No. 09/491,577 filed January 25, 2000

Additional numbers attached: ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Reid G. Adler

Internal Address: Morgan, Lewis & Bockius LLP  
Intellectual Property Support Unit

Street Address: 1800 M Street NW, Washington DC 20036

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R §3.41): \$40.00 *E*

☐ Enclosed

☒ Authorized to be charged to deposit account 50-0310

8. Deposit account number: 50-0310

Attach duplicate of page if paying by deposit account

9. Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Erich E. Veitenheimer

Name of Person Signing

Erich E. Veitenheimer  
Signature

July 10, 2000

Date

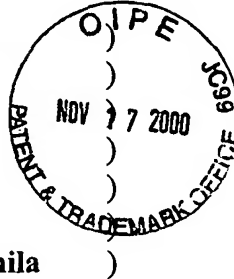
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: **John R. Carlson *et al.***

Application No. **09/491,577**

Filed: **January 25, 2000**

For: **Novel Odorant Receptors in *Drosophila***



**Box Assignment**  
Commissioner for Patents  
Washington, D.C. 20231

**REQUEST FOR CORRECTED NOTICE OF RECORDATION OF ASSIGNMENT**

Attached are copies of the Notice of Recordation of Assignment Document, the Recordation Form Cover Sheet, and recorded Assignments received from the U.S. Patent Office in the above-referenced application for which issuance of a corrected Notice of Recordation of Assignment Document is respectfully requested.


The following data has been incorrectly entered:

<b><u>Error In</u></b>	<b><u>Correct Data</u></b>
Second Applicant's document date	June 7, 2000
Third Applicant's document date	May 16, 2000
Fourth Applicant's document date	June 12, 2000
Fourth Applicant's name	Warr, Coral G.

The corrections are not due to any error by the applicants and no fee is due. The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account 50-0310.

Dated: **November 17, 2000**  
Morgan, Lewis & Bockius LLP  
Customer No. **09629**  
1800 M Street, N.W.  
Washington, D.C. 20036  
202-467-7000

Respectfully submitted  
**Morgan, Lewis & Bockius LLP**

  
Erich E. Veitenheimer  
Registration No. 40,420

## ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled: **NOVEL ODORANT RECEPTORS IN DROSOPHILA** for which I/WE executed an application for United States Letters Patent concurrently herewith; or filed on **January 25, 2000** a utility application for United States Letters Patent (Serial No. **09/491,577**); and

WHEREAS, **Yale University**, a corporation of **Connecticut**, whose post office address is **451 College St., New Haven, CT 06520** (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the provisional application for United States Letters Patent on this invention and the Letters Patent to be issued upon applications which claim the priority of this provisional application;

NOW THEREFORE, be it known that, for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisionals, all provisionals and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/WE have the full right to convey the interest assigned by this Assignment, and I/WE have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, provisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I/WE have hereunto set our hands.

County of <u>New Haven</u>	<b>John R. Carlson</b> Full Name of Sole or First Assignor
State of <u>Connecticut</u>	31 Mountain Brook Road, North Haven CT 06473 Address
	SS.
Subscribed and sworn to before me this <u>12</u> day of <u>June</u> , 2000.	<u>John R. Carlson</u> First Assignor's Signature
<u>Alexis L. Flint</u> Notary Public	<u>6/12/00</u> Date

**ALEXIS L. FLINT**  
**NOTARY PUBLIC**  
MY COMMISSION EXPIRES DEC. 31, 2004

County of _____  State of _____	<b>Junhyong Kim</b> Full Name of Second Assignor  <b>94 Swarthmore Street, Hamden CT 06517</b> Address
SS.	
Subscribed and sworn to before me this ____ day of _____, 2000.  _____ Notary Public	_____ Second Assignor's Signature  _____ Date

County of _____  State of _____	<b>Peter J. Clyne</b> Full Name of Third Assignor  <b>1939 Turk Street, San Francisco CA 94115</b> Address
SS.	
Subscribed and sworn to before me this ____ day of _____, 2000.  _____ Notary Public	_____ Third Assignor's Signature  _____ Date

County of <u>New Haven</u>  State of <u>Connecticut</u>	<b>Coral G. Warr</b> Full Name of Fourth Assignor  <u>255 Willow St, Second Floor</u> <del>24 Bishop Street, Third Floor</del> , New Haven CT 06511 Address
SS.	
Subscribed and sworn to before me this <u>2</u> day of <u>June</u> , 2000.  <u>Alexis L. Flint</u> Notary Public	<u>Coral Warr</u> Fourth Assignor's Signature  <u>6/12/00</u> Date

**ALEXIS L. FLINT**  
**NOTARY PUBLIC**  
MY COMMISSION EXPIRES DEC. 31, 2004

Names of additional inventors attached [ ] Yes [X] No

## ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled: **NOVEL ODORANT RECEPTORS IN DROSOPHILA** for which I/WE executed an application for United States Letters Patent concurrently herewith; or filed on January 25, 2000 a utility application for United States Letters Patent (Serial No. 09/491,577); and

WHEREAS, Yale University, a corporation of Connecticut, whose post office address is 451 College St., New Haven, CT 06520 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the provisional application for United States Letters Patent on this invention and the Letters Patent to be issued upon applications which claim the priority of this provisional application;

NOW THEREFORE, be it known that, for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisionals, all provisionals and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/WE have the full right to convey the interest assigned by this Assignment, and I/WE have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so; execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, provisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I/WE have hereunto set our hands.

County of _____	<b>John R. Carlson</b> Full Name of Sole or First Assignor
State of _____	<b>31 Mountain Brook Road, North Haven CT 06473</b> Address
	SS.
Subscribed and sworn to before me this ____ day of _____, 2000.	_____ First Assignor's Signature
_____ Notary Public	_____ Date



<p>County of <u>New Haven</u> State of <u>Connecticut</u></p> <p>Subscribed and sworn to before me this <u>7</u> day of <u>June</u>, 2000.</p> <p><u>Alexis L. Flint</u> Notary Public</p>	<p style="text-align: center;"><b>Junhyong Kim</b> Full Name of Second Assignor</p> <p style="text-align: center;">94 Swarthmore Street, Hamden CT 06517 Address</p> <p style="text-align: center;">SS.</p> <p style="text-align: center;"><b>ALEXIS L. FLINT</b> NOTARY PUBLIC COMMISSION EXPIRES DEC. 31, 2004</p> <p style="text-align: center;"><u>[Signature]</u> Second Assignor's Signature</p> <p style="text-align: center;"><u>6.7.00</u> Date</p>
<p>County of _____ State of _____</p> <p>Subscribed and sworn to before me this ____ day of _____, 2000.</p> <p>_____ Notary Public</p>	<p style="text-align: center;"><b>Peter J. Clyne</b> Full Name of Third Assignor</p> <p style="text-align: center;">1939 Turk Street, San Francisco CA 94115 Address</p> <p style="text-align: center;">SS.</p> <p style="text-align: center;">_____ Third Assignor's Signature</p> <p style="text-align: center;">_____ Date</p>
<p>County of _____ State of _____</p> <p>Subscribed and sworn to before me this ____ day of _____, 2000.</p> <p>_____ Notary Public</p>	<p style="text-align: center;"><b>Coral G. Warr</b> Full Name of Fourth Assignor</p> <p style="text-align: center;">24 Bishop Street, Third floor, New Haven CT 06511 Address</p> <p style="text-align: center;">SS.</p> <p style="text-align: center;">_____ Fourth Assignor's Signature</p> <p style="text-align: center;">_____ Date</p>

Names of additional inventors attached [ ] Yes [X] No

## ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled: **NOVEL ODORANT RECEPTORS IN DROSOPHILA** for which I/WE executed an application for United States Letters Patent concurrently herewith; or filed on **January 25, 2000** a utility application for United States Letters Patent (Serial No. **09/491,577**); and

WHEREAS, **Yale University**, a corporation of **Connecticut**, whose post office address is **451 College St., New Haven, CT 06520** (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the provisional application for United States Letters Patent on this invention and the Letters Patent to be issued upon applications which claim the priority of this provisional application;

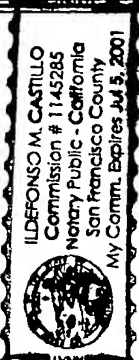
NOW THEREFORE, be it known that, for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisionals, all provisionals and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/WE have the full right to convey the interest assigned by this Assignment, and I/WE have not executed, and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, provisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I/WE have hereunto set our hands.

County of _____	<b>John R. Carlson</b>
State of _____	Full Name of Sole or First Assignor
	<b>31 Mountain Brook Road, North Haven CT 06473</b>
SS.	Address
Subscribed and sworn to before me this ____ day of _____, 2000.	_____ First Assignor's Signature
_____ Notary Public	_____ Date

County of _____ State of _____	SS.	Junhyong Kim Full Name of Second Assignor  94 Swarthmore Street, Hamden CT 06517 Address
Subscribed and sworn to before me this ____ day of _____, 2000.  _____ Notary Public		_____ Second Assignor's Signature  _____ Date
County of <u>San Francisco</u> State of <u>California</u>	SS.	Peter J. Clyne Full Name of Third Assignor  1939 Turk Street, San Francisco CA 94115 Address
Subscribed and sworn to before me this <u>16</u> day of <u>MAY</u> , 2000.  <u>Ildefonso M. Castillo</u> Notary Public		<u>Pete Clyne</u> Third Assignor's Signature  <u>5/16/00</u> Date
County of _____ State of _____	SS.	Coral G. Warr Full Name of Fourth Assignor  24 Bishop Street, Third floor, New Haven CT 06511 Address
Subscribed and sworn to before me this ____ day of _____, 2000.  _____ Notary Public		_____ Fourth Assignor's Signature  _____ Date

Names of additional inventors attached [ ] Yes [X] No